43	CLASSIFICATION CONFIDENTIAL/CONTROL-US OFFICIALS O	NLY
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USSR

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COUNTRY	USSR (Ukrainian SSR)		DATE DISTR.	5 Mar 1952 \
SUBJECT,	Zaporozhstal Iron and S	iteelworks in Zaporahke	NO. OF PAGES	3
PLACE ACQUIRED		25X1	NO. OF ENCLS.	2 @
DATE OF INFO.			SUPPLEMENT TO REPORT NO.	25X1

- 1. The plant was located northeast of Lapurezhe (4749' 1850'll' d) on the castern bank of the Dnieper River. The plant comprised a blast-furnace department, a coking plant, an open-hearth department, a Thomas stell department, a special sterl department, a ferro alloy department, a relling mill department, and secondary and auxiliary departments. *
- 2. The existence of four blast furnaces was confirmed. Three blast furnaces were in operation in 1949. The fourth one was being reconstructed and far ave resumed operation early in 1950. Nost sources against that the capacity of all the blast furnaces totaled 3,700 tons; i. e. blast furnace No 1 and No 2 700 to such, blast furnace No 3 1,300 tons and blast furnace No 4 1,000 tons. Allegand only 60 percent of the capacity was utilized due to mechanical difficulties and the blast engine, etc. The emistence of an old and a new pig foundry at the blast furnace department was also confirmed. Lost of the pig iron castings were shipped out. These eastings represented about 20 percent of the pig iron production. Highly percent of the molten pig iron went to the steelworks for further processing. Also restricted processing capacity of the steelworks was possibly another reason why the blast-furnace capacity was not fully utilized. There was also a form and a pressing works in the blast-furnace department near the foundries.
- 3. There were four batteries in the coking plant. Three were in operation in mid-1949 and the fourth was under construction. The batteries were placed in a row with two on each side of the cake and coal banker. The number of chambers was reported to be 70 to 90 for each battery.
- h. A number of sources agreed that 10 open-hearth furnaces were completed and in operation late in 1949 while another two furnaces were still being reconstructed. Therefore twelve furnaces may be in operation by the end of 1950. The furnaces were set up in two groups of six furnaces each. North of the open-hearth department was the preparation shop where the charges were mixed. Bouth of the open-hearth department was the mold shop where ingots were cast in molds. The molds were removed by cranes from the hardened, but still glowing, imports, between the blant-furnace department and the open-hearth steel department and the open-hearth steel department was a mixing shop where notited pig from, to be

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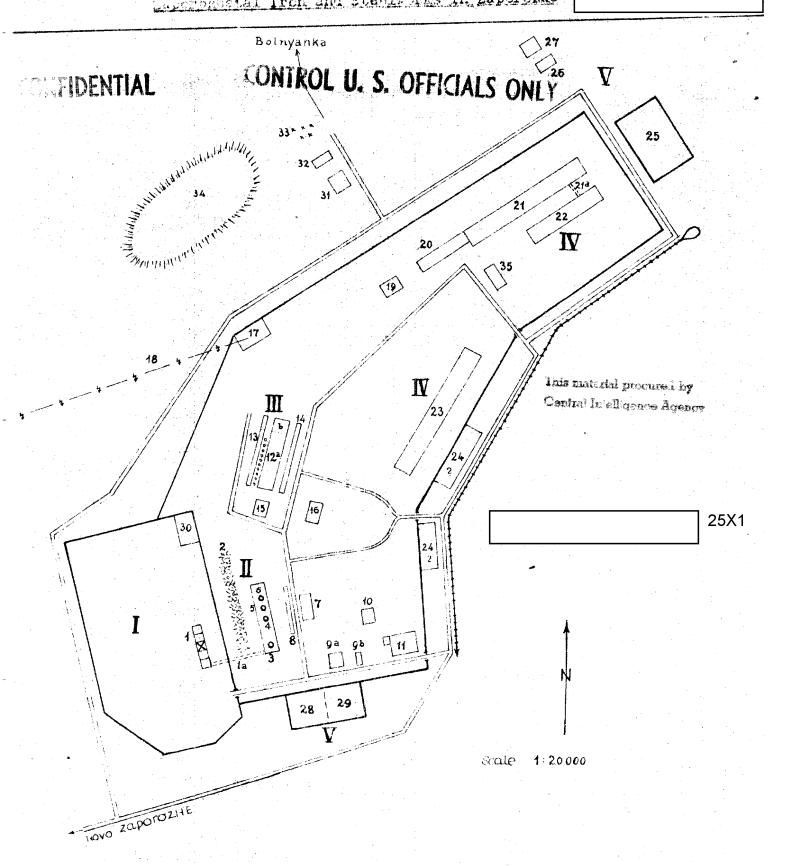
- The construction and installation of a Hessemer plant opposite the beiler house was reported in early 1942. However, it cannot be determined from the contradictory information whether such a plant was actually being constructed or whether sources confused the construction of this plant with the construction of the special steel department.
- 6. The special steel department was also called "the 30-ton department" which designation may be derived from the furnace capacity. The number of furnaces was not accurately determined. There were at least two furnaces. Form sources reported four or five furnaces, four of which were of 30 tons and one of 10 tons manacity. The furnaces were plants electric furnaces. One source reported that a new special-steel department was being built south of the plant, subside the plant walls. The furnaces mentioned new construction projects, whose purpose was unknown, on the same site. A plant for the production of tools may be legated near the special-steel works.
- 7. Two of the five original electric furnaces in the ferro-abley department had resumed operation by the end of 1949. It was allegedly planted to expand this department to include eight furnaces. He production figures were known. Ferromanganese, ferro-cilicon, and fore-purpoten were produced. One nources also reported a earlide plant im addition to the form-alloy plant.
- 8. Defore the war the rolling mill of this plant supplied 50 percent of all the sheet metal for automobile bodies in the U.S.S.R. It also was the only producer of automobile sheet metal by the cold-rolling proces-LLEGIB comprised was a cold ob-rolling mill had a receiving ruraces for import, a bilooming roll train, a roll train for plates up to 250 mm thick, a rell train for sheets between 1 and 19 mm, sheers, a sheet-winding machine, etc. the rolling mill was electrically operated, the engines were housed in an agree at the side of the building. The cold-rolling mill received about half of the production of the het-rolling department. It produced shorts of this cases as low as 0.5 mm. Both dependments were connected by an underground conveyor belt. Jone sources reported the construction of a new relling mill at the southeastern torder of the plant area. This mill was scheduled to be completed by the end of 1950, he building work observed at the end of 1949 indicated that the length of the proposed installation was 800 meters. It was observed that rolling-mill machinen were stored in the open meer the construction
- 9. The secondary and auxiliary departments commissed machine shops, a force, a foundry, and a drefting office. These departments were combined into a clant section called Remorthy Tokhanicheski Zavod and were used for maintenance of the installations of the main plant. The plant also contained a lecenotive repair shop, an electrical recair shop, a slap-stone factory, a fireclay factory, and a
- 10. A small percentage of the electric power was supplied by the plant-owned TEH station, which had a boider house with four wertical-tube boilers of he atnospheres. The station, which formused has and coal dust true and an fuel. The coal-dust firing was operated with mozzles similar to those used in cilifring systems. The obtain-bailer were used with steam turbo descrators for the generation of power, and with timbo description of air black. The greater part of the electric rower was supplied by the large Laporoshe Rower Plant through a plant-owned transformer station. The incoming current was 100,000 volts and was reduced to 6,000 volts.
- il. The estimated bot-relled products were 750 tons daily while 600 tons of cold-relled products were manufactured daily. The daily scrap requirements for steel production were 700 tons, 650 tons of thich were supplied by the scrap output of the plant itself.

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No Change In Class.		
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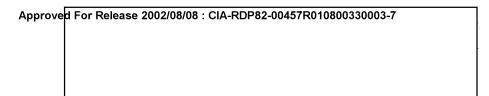
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	12. The mumber of	f employees was report shortage of skilled to	ed to be between 7,000 ar	id 7,500, There
25X1	The ferro all This would be depertment as	love were presumably (on that the ferro-all is identical. This is the two departments	eyout sketches, see And melted in the special st. of department and the specials clso correspond to by the as well as the fact that ad on the sketch but no fe	cal department. cial-stepl number of lumaces there is a
25X1	department. ** Community organise coas	t. An increase in the	e amount of special steel on and significance of the the production of special	produced appears Laporozhe Mant
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CONTROL U. S. OFFICIALS GAMES 4 to 25X1 Zaporozhstal Iron and Steelworks in Zaporozhe Harai rial procured by antral in elligance Agency BOLNYANKA! River THANKS. Dnepro-JES VERNYZ ION ZAPOROZH LEGEND Railroad line Streetcar line Presumed continuation А Zaporozhstal Hant Presumed location of the plant railroad station SCALE 1 : 125 000







Legend:

- I. Coking plant and byproducts plant.
- 1. Four batteries with coking-coal tower and four smokestacks.
- Ma. Coke conveyor to the blast-furnace department.
- II. Blast Armace department.
- 2. Ore storage dump.
- 3. Blast furnace No 1.
- 4,5 and 6. Blast furnaces No 2,3, and 4.
- 7. TEM plant.
- 8. Switch and transformer station of the TEZ plant.
- 9a and 9b. Pi
- 10. Forge, pr

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- 11. Cooling-water basin with pumping station.
- III. Steelworks.
- 12a. Open-hearth department quainmed with 10 furnaces and 10 smokestacks.
- 12b. Two furnaces under construction.
- 13. Preparation shop.
- 14. Foundry and mold shop.
- 15. Mixing shop.
- 16. Special steel plant also known as the the tetartment.
- 17. Main transformer station.
- 16. High-tension line to the power station at the storage dam.
- IV. Rolling-mill department.
- 19. Ingot cooling-shop.
- 20. Anaealing-furnace shop.
- 21. Hot-rolling mill.
- 22a. Underground connection to 22.
- 22. Gold-rolling mill.
- 23. Rolling mill, new construction project.
 - V. Secondary and auxiliary installations.
- 24. New construction projects outside the plant enclosure, which may be a new special steelworks.
- 25. Remonthy Mekhanicheski Zavod (Mechanical Repair Plant)

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	Annex 2
26. Slag-stone factory.	· · · · · · · · · · · · · · · · · · ·
27. Fireclay factory.	
28. Yuzh, electrical repair shop.	
29. San Tekh, (Installationswerk).	
30. PW Camp 7100/4.	
31. PW Camp 7190/3.	
32. Hospital.	
33. Cemetery.	
34. Slag dump.	
35. Main administration building.	
Plant fencing	
Plant roads	
Streetcar line with terminal station +++++	

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